



# **Mechanical engineering and it relates to STEM**

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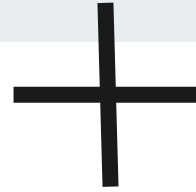
Machines!



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## Mechanical Engineer

A mechanical engineer job requires the use of robotics to complete their daily tasks. Vex Robotics helps develop those skills they can build modern machines. They also use robotics to create robots from simple pencil sharpeners to complex machines that go to other planets. My involvement in robotics has helped me understand how to develop and create different machines. This is a skill commonly used in mechanical engineering.



# Mechanical Engineering and how it uses STEM

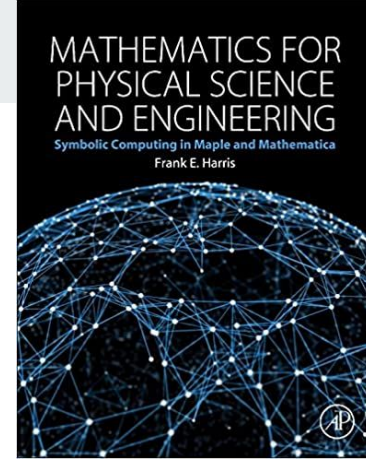
Mechanical engineering uses STEM to create and design different products. It uses science to see to come up with different ideas on how to solve a problem. It uses technology to innovate or design new types of technology. It uses engineering to create those products. It uses Math to calculate different sizes and shapes of solutions to problems.



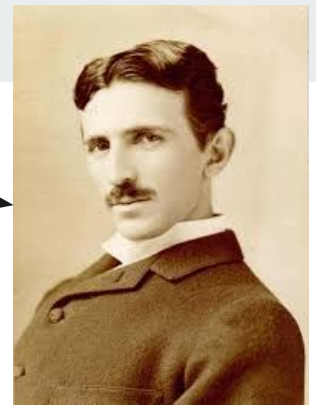
## Skills

To become a Mechanical engineer, you need a bachelor's degree in mechanical engineering. These programs include courses in mathematics and physical science. However, you also need the ability to think outside the box. Everyday, mechanical engineers need to use their skills to solve different problems ranging from fixing a broken part to inventing a solution to a problem. To develop these skills, engineers must go through years of studying and internships to develop these skills

This is one of the textbooks Mechanical engineers use or have used to learn.



This is a picture  
of Nikola Tesla



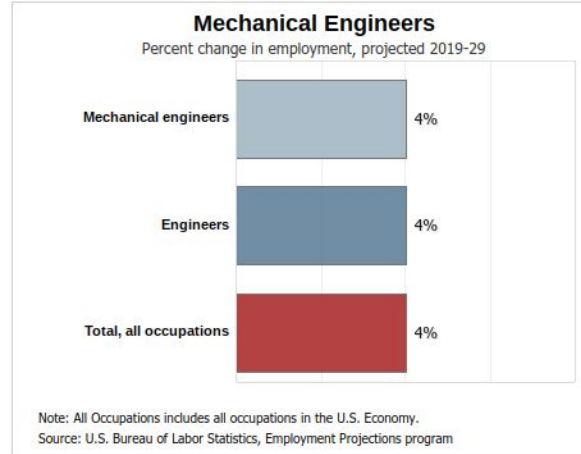
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## Famous Mechanical Engineer

Nicolas Tesla was a famous mechanical engineer who used STEM to create different inventions. He invented the AC unit which is a invention which is still used today. He has inspired me to learn more about how he created these inventions. The reason he was so successful is because he uses the design process to develop these inventions.



## Over Time



This is a graph for the rate of change over the amount of employment for Mechanical Engineers.

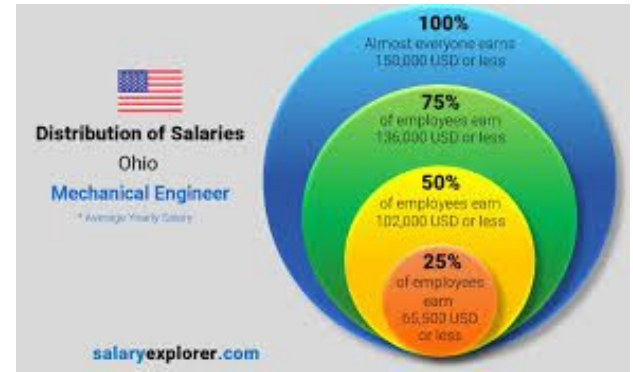


The field of mechanical Engineering is a field that is rapidly changing. As technology is advancing, modern machines are getting more common in people's lives. Soon, mechanical engineers will start work in all aspects of life to enhance our world. This has caused the industry to rapidly increase in jobs. The job will also stay at a high job satisfaction rate because the job pays well at 89,000\$ or more a year. The satisfaction rate is also high because the job is generally fun.

# Why I want to be a Mechanical Engineer.

I want to be a mechanical engineer because it involves a lot of out of the box thinking. The job also pays well and it would be fun to help design different devices that would be used everyday .Mechanical engineering also has a very high job satisfaction rate at 89%. Vex Robotics has shown me that designing and creating different robots is exciting to do.

This is a graph for mechanical engineers of Ohio's' pay.



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# Conclusion

In conclusion, Mechanical engineering is a job that uses STEM and other skills to create different machines. These machines help people in their daily lives so they can have a happier experience. Vex Robotics helps kids to develop these skills early on so that they could be a successful mechanical engineer.

This is an example of when Mechanical Engineering and Stem combined can do.







# Citations

Of Labor, U. D. (2020, September 21). Mechanical Engineers : Occupational Outlook Handbook. Retrieved October 29, 2020, from <https://www.bls.gov/ooh/architecture-and-engineering/mechanical-engineers.htm>

History.com Editors. (2009, November 09). Nikola Tesla. Retrieved October 29, 2020, from <https://www.history.com/topics/inventions/nikola-tesla>